

Express Mail No.
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Title: TETRASPA~~N~~ PROTEIN AND USES THEREOF

Inventors: Christoph Reinhard et al. Serial No. 09/905,674 Docket No. PP-01700.002/200130.521

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

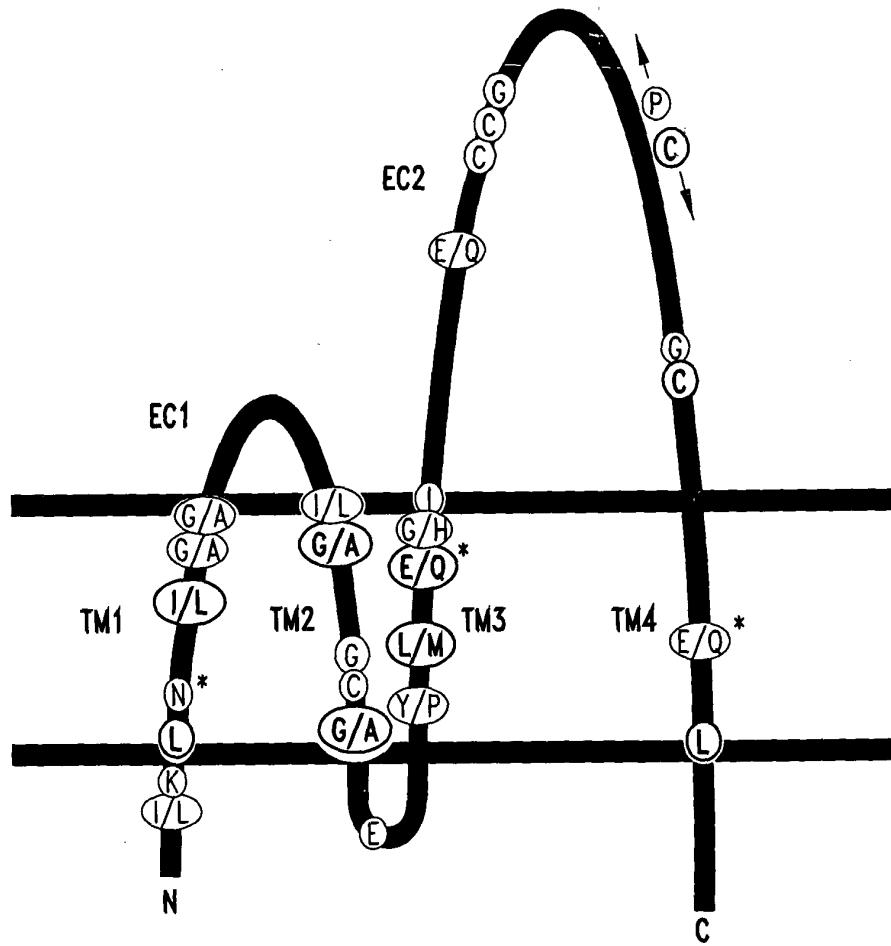


Fig. 1

Title: TETRSPAN PROTEIN AND USES THE

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APPROVED	O.G. FIG.	CLASS	SUBCLASS
BY	DRAFTSMAN		

1 CTTCCCTCGGC CGAGCCGGGC CGCGCGGCCG CTGCCGCCGC CGCGCGCGA
GAAGGAGCCG GCTCGGCCCG GCGCGCCGGC GACGGCGGCG GCGCGCGCCT

+1]-----
51 TTCTGCTTCT CAGAACATGC ACTATTATAG ATACTCTAAC GCCAAAGTCA
AAGACGAAGA GTCTTCTACG TGATAATATC TATGAGATTG CGGTTTCAGT

+1 -----
101 GCTGCTGGTA CAAGTACCTC CTTTCAGCT ACAACATCAT CTTCTGGTTG
CGACGACCAT GTTCATGGAG GAAAAGTCGA TGTTGTAGTA GAAGACCAAC
-3 <-----

+3]-----
+1 -----
151 GCTGGAGTTG TCTTCCTTGG AGTCGGGCTG TGGGCATGGA GCGAAAAGGG
CGACCTAAC AGAAGGAACC TCAGCCCCAC ACCCGTACCT CGCTTTTCCC
-3 -----

+3 -----
+1 -----
201 TGTGCTGTCC GACCTCACCA AAGTGACCCG GATGCATGGA ATCGACCCCTG
ACACGACAGG CTGGAGTGGT TTCACTGGGC CTACGTACCT TAGCTGGGAC
-3 -----

+3 -----
+1 -----
251 TGGTGCTGGT CCTGATGGTG GGCGTGGTGA TGTTCACCCCT GGGGTTCGCC
ACACGACCA GGACTACCAC CCGCACCAC ACAAGTGGGA CCCAAGCGG
-3 -----

+3 -----
+1 -----
301 GGCTGCGTGG GGGCTCTGCG GGAGAACATTC TGCTTGCTCA ACTTTTCTG
CCGACGCACC CCCGAGACGC CCTCTTATAG ACGAACGAGT TGAAAAAGAC
-3 -----

+3 -----
+1 -----
351 TGGCACCATC GTGCTCATCT TCTTCCTGGA GCTGGCTGTG GCCGTGCTGG
ACCGTGGTAG CACGAGTAGA AGAAGGACCT CGACCGACAC CGGCACGACC

Fig. 2A

Title: TETRASPA~~N~~ PROTEIN AND USES THEREOF

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APPROVED	O.G. FIG.
	CLASS SUBCLASS
BY DRAFTSMAN	

+3 -----
+1 -----
401 CCTTCCTGTT CCAGGACTGG GTGAGGGACC GGTTCCGGGA GTTCTTCGAG
GGAAGGACAA GGTCTGACC CACTCCCTGG CCAAGGCCCT CAAGAAGCTC
-3 -----
+3 -----
+1 -----

ClaI

451 AGCAACATCA AGTCCTACCG GGACGATATC GATCTGAAA ACCTCATCGA
TCGTTGAGT TCAGGATGGC CCTGCTATAG CTAGACGTTT TGGAGTAGCT
-3 -----[
+3 ----->
+1 -----
501 CTCCCTTCAG AAAGCTAACCC AGTGCTGTGG CGCATATGGC CCTGAAGACT
GAGGGAAAGTC TTTCGATTGG TCACGACACC GCGTATAACCG GGACTTCTGA
+1 -----
551 GGGACCTCAA CGTCTACTTC AATTGCAGCG GTGCCAGCTA CAGCCGAGAG
CCCTGGAGTT GCAGATGAAG TTAACGTCGC CACGGTCGAT GTCGGCTCTC
+1 -----
601 AAGTGCGGGG TCCCCTTCTC CTGCTGCGTG CCAGATCCTG CGCAAAAAGT
TTCACGCCCG AGGGGAAGAG GACGACGCAC GGTCTAGGAC GCGTTTTCA
+1 -----
651 TGTGAACACA CAGTGTGGAT ATGATGTCAG GATTCAAGCTG AAGAGCAAGT
ACACTTGTGT GTCACACCTA TACTACAGTC CTAAGTCGAC TTCTCGTTCA
+1 -----
701 GGGATGAGTC CATCTTCACG AAAGGCTGCA TCCAGGCGCT GGAAAGCTGG
CCCTACTCAG GTAGAAGTGC TTTCCGACGT AGGTCCGCGA CCTTTCGACC
+1 -----
751 CTCCCGCGGA ACATTACAT TGTGGCTGGC GTCTTCATCG CCATCTCGCT
GAGGGCGCCT TGTAATGTA ACACCGACCG CAGAAGTAGC GGTAGAGCGA
-1 <-----

Fig. 2B

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APPROVED	O.G. FIG.
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+1 -----
 801 GTTGCAGATA TTTGGCATCT TCCTGGCAAG GACGCTGATC TCAGACATCG
 CAACGTCTAT AAACCGTAGA AGGACCGTTC CTGCGACTAG AGTCTGTAGC
 -1 -----

 +1 -----
 851 AGGCAGTGAA GGCCGGCCAT CACTTCTGAG GAGCAGAGTT GAGGGAGGCCG
 TCCGTCACTT CGGGCCGGTA GTGAAGACTC CTCGTCCTCAA CTCCCTCGGC
 -1 -----

 901 AGCTGAGCCA CGCTGGGAGG CCAGAGCCTT TCTCTGCCAT CAGCCCTACG
 TCGACTCGGT GCGACCCCTCC GGTCTCGGAA AGAGACGGTA GTCGGGATGC
 -1 -----

 +1 -----]
 951 TCCAGAGGGA GAGGAGCCGA CACCCCCAGA GCCAGTGCCC CATCTTAAGC
 AGGTCTCCCT CTCCTCGGCT GTGGGGGTCT CGGTACAGGG GTAGAATTG
 -1 -----[

 +1 -----
 1001 ATCAGCGTGA CGTGACCTCT CTGTTCTGC TTGCTGGTGC TGAAGACCAA
 TAGTCGCACT GCACTGGAGA GACAAAGACG AACGACCACG ACTTCTGGTT

 +1 -----
 1051 GGGTCCCCCT TGTTACCTGC CCAAACTTGT GACTGCATCC CTCTGGAGTC
 CCCAGGGGGGA ACAATGGACG GGTTGAACA CTGACGTAGG GAGACCTCAG

 +1 -----
 1101 TACCCAGAGA CAGAGAATGT GTCTTATGT GGGAGTGGTG ACTCTGAAAG
 ATGGGTCTCT GTCTCTTACA CAGAAATACA CCCTCACAC TGAGACTTTC
 -1 <-----

 +1 -----
 1151 ACAGAGAGGG CTCCTGTGGC TGCCAGGAGG GCTTGACTCA GACCCCTGC
 TGTCTCTCCC GAGGACACCG ACGGTCTCC CGAACTGAGT CTGGGGGACG
 -1 -----

PstI

Fig. 2C

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APPROVED	O.G. FIG.	CLASS	SUBCLASS
BY DRAFTSMAN			

+1 -----
Pst1
~

1201 AGCTCAAGCA TGTCTGCAGG ACACCCCTGGT CCCYTYTCCA YTGGCWTCCA
TCGAGTTCGT ACAGACGTCC TGTGGGACCA GGGRARAGGT RACCGWAGGT
-1 -----

+1 ----->
1251 GACATCTGCT TTGGGTTCATC CACATCTGTG GGTNGGCCGT GGGTAGAGGG
CTGTAGACGA AACCCAGTAG GTGTAGACAC CCANCCGGCA CCCATCTCCC
-1 -----

1301 ACCCACAGGC GTGGACAGGG CATCTCTCTC CATCAAGCAA AGCAGCATGG
TGGGTGTCCG CACCTGTCCC GTAGAGAGAG GTAGTTCGTT TCGTCGTACG
-1 ----- [

1351 GGGGCCTTGC CGTAAACGGG AGGCGNGACG TTGGCCC
CCCCGGAACG GCATTTGCC CTCGCNCTGC AACCGGG

Fig. 2D

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1 MHYYRYSNAK VSCWYKYLLF SYNIIFWLAG VVFLGVGLWA WSEKGVLSDL
51 TKVTRMHGID PVVLVLMVGV VMFTLGFAGC VGALRENICL LNFFCGTIVL
101 IFFLELAVAV LAFLFQDWVR DRFREFFESN IKSYRDDIDL QNLIDSLQKA
151 NQCCGAYGPE DWDLNVYFNC SGASYSREKC GVPFSCCVPD PAQKVNTQC
201 GYDVRIQLKS KWDESIFTKG CIQALESWLP RNIYIVAGVF IAISLLQIFG
251 IFLARTLISD IEAVKAGHHF

Fig. 3

PCT/US2001/0200130 09/905,674 002/200130.521

NTSP5:P104	CHIR22-1	TGCAGCCTTCGTAAAGATGGACTC	25 (7-11-7)
NTSP5:P727	CHIR22-2	CCCCATGCTGCTTGCTTGATGGAG	25 (7-11-7)
NTSP5:P285	CHIR22-3	GCTCAGCTCGGCTCCCTCAACTC	23 (7-9-7)
NTSP5:P456	CHIR22-4	CACAAGTTGGGCAGGTAACAAGGG	25 (7-11-7)
NTSP5:P395	CHIR22-5	AGAGGTACGTCACGCTGATGCTTA	25 (7-11-7)
NTSP5:P104	CHIR22-1RC	CTCAGGTAGAAGTGCTTCCGACGT	25 (7-11-7)
NTSP5:P727	CHIR22-2RC	GAGGTAGTCGTTCGTCGTACCCC	25 (7-11-7)
NTSP5:P285	CHIR22-3RC	CTCAACTCCCTCGGCTCGACTCG	23 (7-9-7)
NTSP5:P456	CHIR22-4RC	GGGAACAATGGACGGGTTAACAC	25 (7-11-7)
NTSP5:P395	CHIR22-5RC	ATTCGTAGTCGCACTACGCTGGAGA	25 (7-11-7)

Fig. 4

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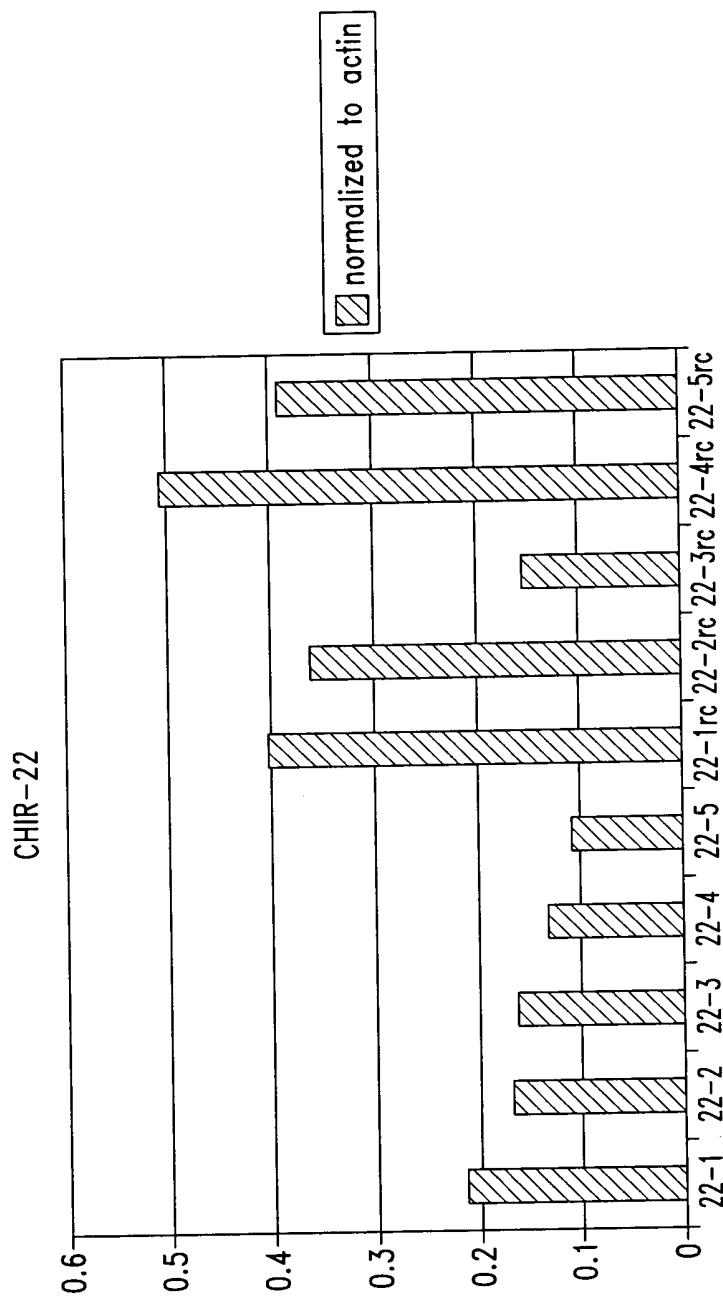


Fig. 5

Title: TETRASPA^N PROTEIN AND USES THEREOF

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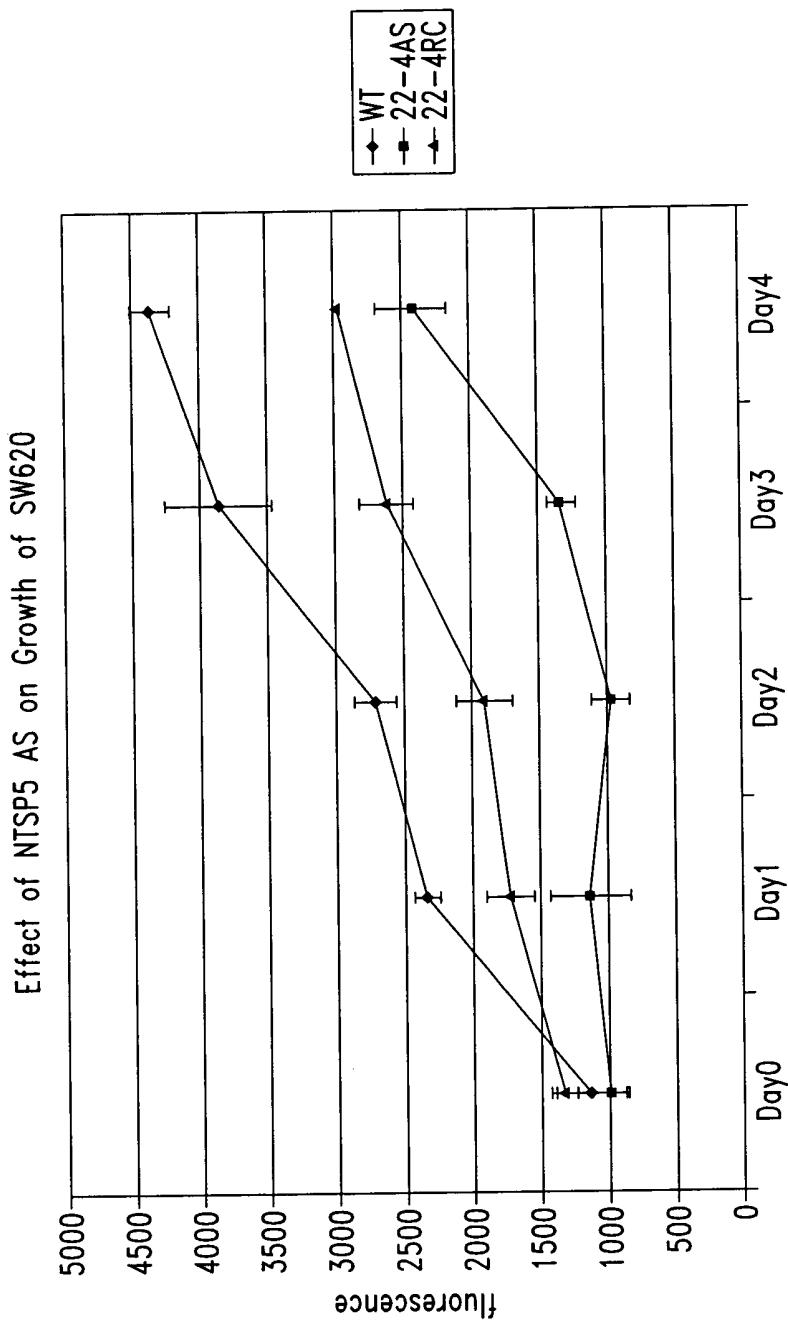


Fig. 6